Datasheet for ABIN7601000

anti-Azurocidin antibody (AA 27-245)

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Overview

Quantity:	100 µg
Target:	Azurocidin (AZU1)
Binding Specificity:	AA 27-245
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Azurocidin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Azurocidin/AZU1 Antibody Picoband®
Immunogen:	E.coli-derived human Azurocidin/AZU1 recombinant protein (Position: I27-N245).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Azurocidin/AZU1 Antibody Picoband® (ABIN7601000). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Azurocidin (AZU1)
Alternative Name:	AZU1 (AZU1 Products)
Background:	Synonyms: Mucin-7, MUC-7, Apo-MG2, Salivary mucin-7, MUC7, MG2 Tissue Specificity: Expressed in salivary gland tissues and only in those that contain mucous acinar cells (e.g. sublingual and submandibular glands) and not in salivary glands containing only serous acinar cells (e.g. parotid gland). Background: Azurocidin also known as cationic antimicrobial protein CAP37 or heparin-binding protein (HBP) is a protein that in humans is encoded by the AZU1 gene. Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. This gene encodes a preproprotein that is proteolytically processed to generate a mature azurophil granule antibiotic protein, with monocyte chemotactic and antimicrobial activity. It is also an important multifunctional inflammatory mediator. This encoded protein is a member of the serine protease gene family but it is not a serine proteinase, because the active site serine and histidine residues are replaced. The genes encoding this protein, neutrophil elastase 2, and proteinase 3 are in a cluster located at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation.
Molecular Weight:	37 kDa
Gene ID:	566
UniProt:	P20160

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, -

1. Morgan, J. G. , Sukiennicki, T. , Pereira, H. A. , Spitznagel, J. K. , & Larrick, J. W. . (1991). Cloning of the cdna for the serine protease homolog cap37/azurocidin, a microbicidal and chemotactic protein from human granulocytes. The Journal of Immunology, 147(9), 3210-3214.
2. M, Zimmer, R, L, Medcalf, & T, et al. (1992). Three human elastase-like genes coordinately expressed in the myelomonocyte lineage are organized as a single genetic locus on 19pter. Proceedings of the National Academy of Sciences of the United States of America. 3. Gautam, N. , Olofsson, A. M. , Herwald, H. , Iversen, L. F. , & Lindbom, L. . (2001). Heparin-binding protein

Application Details

	(hbp/cap37): a missing link in neutrophil-evoked alteration of vascular permeability. Nature Medicine, 7(10), 1123.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.